is very annoying, after the reflector, and the spurious disc is very large ; image larger than in the great telescope, and definition decidedly worse ; even γ not visible.

Jan. 15*th.*—Micrometer measures made ; the results of which are given in *fig.* 6. The Companion *N f* in Lassel's observations just seen in *P T* proves to be Alvan Clark's comes, not Lassell's companion, which is the faint star nearly following, and 1′ 0″ distant, too indistinct to-night for measures, Le Sueur's γ is Lassell's *d*.

Jan. 17*th.*—"Lassell's and Alvan Clark's companion visible ; β again suspected."

Jan. 18*th.*—Both companions visible, and β suspected again by Mr. Ellery and myself.

Feb. 2*nd.*—Sirius definition indifferent. A. Clark's companion, very plain, also *d* Lassell's companion (*fig.* 7.) with care also. I see *v v f* star at *g*, another near *f*. Sometimes suspect one near *A C C* ; power 520. Group also near *K*.

Feb. 3*rd.*—Definition pretty good ; *d*, *e*, Le Sueur's *e*, A. Clark's *c*, *K*, &c., distinctly visible ; *f*, *g*, *i*, sometimes *h* not at all.

Feb. 4*th.*—Sirius ; power 230 ; definition tolerable ; *e f* and *g* occasionally visible ; *h* and *i* not so. Power, 520 ; same result.

Feb. 13. AR and Decl^{n} micrometer measures of Sirius and companion, during which my eyes gave way, and I was unable to observe again so bright an object, until—

23*rd Feb.*, 1872, when I note positions of stars near Sirius as (*fig.* 8). All visible (*f m* and *g*) by glimpses.

From which it may be inferred that little doubt exists as to the existence of all but β and *m*, and the probabilities are in favour of their actual existence as noted.

Art. XLII.—*Note on the Cranbourne Meteorite.*

By Sydney Gibbons.

[Read 10th June, 1872.]

This was a short note embodying some recent observations by Berthelot, who reports in the Comptes Rendus,* that the Cranbourne Meteorite contains, among other things, fragments of pyrites, and a certain quantity of amorphous carbon, which was separated in the form of a greenish

* lxxiii., 494.

Fig. 5.

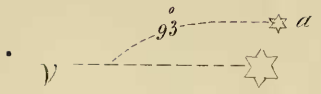

Fig. 6.

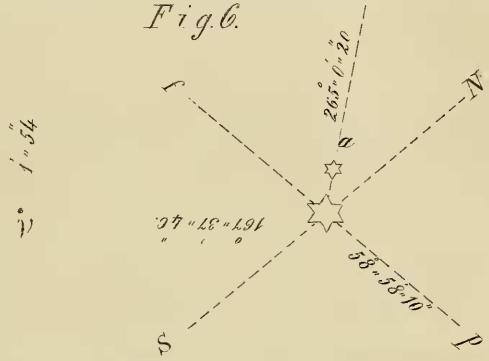

Fig. 7.

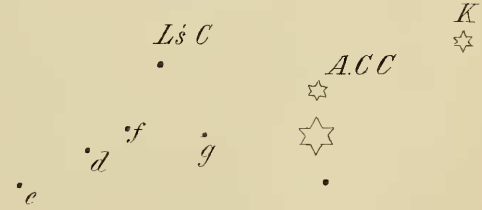

Fig. 8.